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- (71) Applicant (for all designated States except US): SAUDI ARABIAN OIL COMPANY [SA/SA]; R-3296, Administration Building, Dhahran 31311 (SA).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): HASSELL, James, Clyde, Jr. [US/SA]; 552 Jurayd Ct., Dhahran 31311 (SA).
- (74) Agent: SPATH, Thomas, E.; Abelman, Frayne & Schwab, 150 East 42nd Street, New York, NY 10017-5612 (US).

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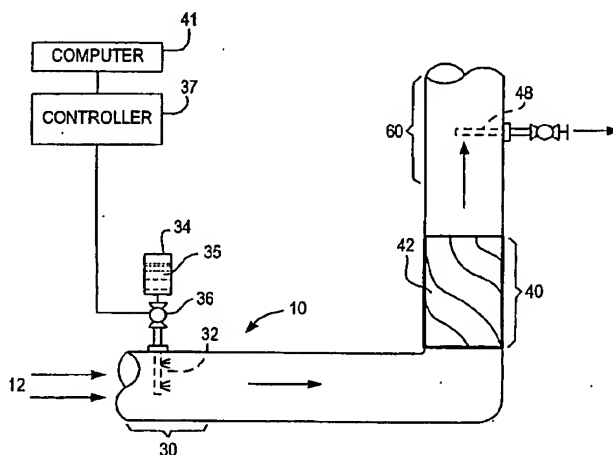
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(54) Title: MULTI-PHASE FLUID SAMPLING METHOD AND APPARATUS



(57) Abstract: The invention provides a method for producing a homogenous sample of a pressurized fluid stream flowing in a pipeline, the fluid stream consisting of a majority component of hydrocarbon gas, the remainder consisting of one or more hydrocarbon liquids and water in the form of vapor, aerosols, droplets and/or liquid streams, the method includes the steps of: a. injecting one or more surface active agents into the fluid stream in an injection zone at a rate that is sufficient to form a uniform foam of the gas and the one or more hydrocarbon liquids and water components; b. mixing the one or more surface active agents with the fluid stream in a mixing zone to form a uniform foam composition flowing in the pipeline downstream of the mixing zone; c. withdrawing a portion of the foam composition from the pipeline at a sampling point; d. passing the portion of the foam composition withdrawn through a sampling loop; and e. removing a sample of predetermined volume of the foam composition from the sampling loop for analysis.

WO 2004/062783 A2